

SWARCer NEWS

ATTENDANCE

Attendance was not taken but we did have a good crowd.

General Meeting

Monday, October 3, 2016

Meeting called to order at 7:03 p.m. by Steve (KA0GMY).

Opening Announcements

- Tickets for sale for the December raffle.
- Steve is selling. \$5/each.
- Three prizes are being offered this year.

- First Place Prize: Connect Systems CS 800 DMR mobile radio
- Second Place Prize: Kenwood TM-281A 144MHz FM transceiver
- Third Place Prize: SignaLink™ USB sound card - radio interface by Tigertronics

- Ticket sales are brisk; SWARC would like to reserve 150 tickets for JARSFEST
- JARSFEST: Table for \$12; motion made to purchase a table at JARSFEST; motion seconded; motion passed
- Julie sent the net report: Perkins not turning in net reports
- Ryan: membership approximately 126; Ryan will have updated membership roster within the next week
- Carl (KM4GDU)—JOTA sponsor; October 15 is the SWARC SWAPFEST followed by JOTA Jamboree on the Air; Worldwide; troops across the nation contacting one another; Carl is working on the schedule
- SWAPFEST will run from 7:00 am through 12:00 noon.
- JOTA will run from 9:00 am through 4:00 pm.
- The November meeting will be our Thanksgiving feast.
- We ask that everyone bring a side dish to share.
- Hams will be eating ham: is that cannibalism? Or hamibalism?

Treasurer's Report by Christy (KJ4AEO)

- Christy was not in attendance this evening.
- No Treasurer's Report was available.



Public Service Through Amateur Radio

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of our members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.



Club News and World (LOCAL) Events

Hi everyone as the new editor of the club newsletter I want everyone to know what to expect. I am hoping to have the newsletter out the first weekend after the club meeting. So if you have information you want included then I will need it that weekend. If you take part in a special event the write it up and submit it along with some pictures.

We will be happy to include your articles. If you would like to write about something going on in the club (good or bad) we will be happy to include your article. Please remember this is your newsletter and your contributions are appreciated.

Net Control Report

- Please make sure you turn in your net reports to Ms. Julie (KT4JR) in a timely manner.

Public Service Report by Wade (KW4EMG)

- Wade was not in attendance this evening.
- Dave (NW3U) presented the Public Service Report.
- October 8, 2016: Le Tour de Femme
- October 16, 2016: 2016 NCBC Fall Rally (support gear vehicles; communication at the rest stop)
- See southwakearc.com for additional information on public service events.

Vice President's Report (NW3U)

- No report was provided this evening.

Meeting Program

- The originally scheduled meeting program was not possible this evening.

Meeting was adjourned at 7:40 p.m.

Respectfully submitted by Nancy (KM4KUT)

Membership

Ryan, NC4RA has reported that he is receiving new applications weekly. This is great to know that we are a part of a growing club. If you have a question about your membership or want to inquiry about becoming a member please contact Ryan, NC4RA at rwavey@charter.net .

Raffle

The following items will be given out as a results of the club raffle at the Christmas social.

Connect System CS800
DMR \$280.00
Kenwood TM-281A 2
meter mobile \$137.95
Signalink USB Interface
\$99.99

There are still plenty of tickets left so be sure to get yours. They are only \$5.00 a piece.



Club News
and World
(local) Events

BOARD OF DIRECTORS

President

Steve Mowels - KA0GMY

Vice President

David Krum – NW3U

Secretary

Nancy Butterfield – KM4KUT

Treasurer

Christy Fernandini - KJ4AEO

Member-At-Large

Ryan Sheppard – K4OKI

Member-At-Large

Tim Ruffin – W4TAR

Member-At-Large

Bradley Norton – KM4JYR

Membership Chair

Ryan Avery , NC4RA

APPOINTED POSITIONS

Net Manager

Julie Royster - KT4JR

Special Events Director

Gino Fernandini - KI4YXO

Public Service Director

Wade Gutreuter –

KW4EMG

NET REPORT

Net report for SWARC meeting
10/3/2016

Following is an incomplete report
for the September nets. Mark
Perkins

NC4MP did not turn in the reports
for 2 nets which he called this
month,

so the totals are a bit
off. However, KJ4CVK continued
to check in each
night and to have substituted
numerous times this month as net
control.

Thanks to all the members and
guests who make our nets so
popular and

enjoyable! We also want to thank
Wade KW4EMG and John
WN4RMV who
covered for Sean while he was
taking a break from nets/

Julie Royster KT4JR

SEPTEMBER 2016 incomplete
SWARC net report

Net sessions: 28 (2 nets
missing which were called by
NC4MP)

Members participating: 39

Visitors participating: 114

Total checkins ("QNI") 665

Net control operators listing:

KJ4CVK	M	8
KT4JR	M	4
KM4KUT	G	4
KA0GMY	M	3
K9RII	M	2
AJ4NX	G	2
KW4EMG	M	1
KM4JYR	M	1

Top QNI listing:

28 KJ4CVK (really 30 but 2
reports are missing)

26 KM4TLE
25 KT4JR
25 KW4EMG
25 KK4QDZ
25 WA3JJG (Guest)
22 KN4OO (Guest)
18 KI4WAI (Guest)
17 KA0GMY
17 K9RII
17 NC4MP
17 WA4TCJ
16 KD4KII (Guest)
16 KK4BVU (Guest)

South Wake Amateur Radio Club Treasurer

Christy our treasurer
got tied p at work this
month and did not get
the report done.

I think we need to
dock her pay so that
this does not happen
again.

Naval Academy Students Planning CubeSat with HF Uplink

11/03/2016

Students at the US Naval Academy in Annapolis, Maryland, are planning an Amateur Radio CubeSat — dubbed **HFSAT** — that would carry an HF transponder as a primary payload as well as 2-meter APRS as a secondary mission when power is available. The 1.5 U CubeSat will have a linear uplink at 21.4 MHz and a downlink at 29.42 MHz. “HFSAT is a small 1.5U CubeSat that will demonstrate the viability of HF satellite communications as a back-up communication system using existing ubiquitous HF radios that are often a part of the every amateur station,” said USNA Instructor Bob Bruninga, WB4APR, who developed APRS. Bruninga said *HFSAT* would be similar to the 1990s-era RS-12/13 Russian Amateur Radio satellite.

“HFSAT will continue the long tradition of small amateur satellites designed by students and hams at the US Naval Academy,” Bruninga told ARRL. The uplink will be at 21.4 MHz and downlink at 29.42 MHz, similar to [earlier] Mode K HF satellites. No launch has

yet been identified.” Bruninga said *HFSAT* would be gravity gradient-stabilized by its full-sized, 10-meter, thin-wire, half-wave HF dipole.

Other unique features of *HFSAT* include its APRS telemetry command-and-control capability. “For VHF the students have modified a popular Byonics.com MTT4B all-in-one APRS Tiny-Track4 module for telemetry, command, and control to fit on a single 3.4-inch square card inside the CubeSat, that they will use for this and for future CubeSats,” Bruninga said. The students are working with Bill Ress, N6GHZ, on the HF transponder card, which will provide a bandwidth of 30 kHz with an inverting transponder to minimize Doppler. Todd Bruner, WB1HAI, will be

the *HFSAT* control operator. Bruninga said the HF transponder is a follow-on from the USNA’s existing PSAT 10-meter PSK31 transponder, still operational. *HFSAT*’s telemetry downlink will be captured via stations in the worldwide ground-station network. The packet link is a secondary mission compared to the HF transponder on this spacecraft.

Once *HFSAT* is in space, Bruninga recommended using a vertical HF antenna,

because it would match well with the antenna patterns and geometry of Low Earth Orbit (LEO) satellites. “When low on the horizon, both the satellite and the user antennas are in their main lobes, providing maximum gain at the distant horizons,” Bruninga said. “At the higher elevations, the satellite is 6 dB to 10 dB closer, significantly making up for the reduced antenna pattern geometry.”

He said hams would be able to use “simple, manual” pass-prediction tools, much as they used the old Oscar Locator in the early years of Amateur Radio satellites.

Two Arrested in Georgia for Planning to Attack HAARP Facility in Alaska

11/02/2016

Authorities in Georgia recently arrested two men who said they were planning to attack the High Frequency Active Auroral Research Program (HAARP) facility near Gakona, Alaska. Michael Vickers, a detective with the Coffee County Sheriff’s Office, told *Alaska Dispatch News* that the pair explained to authorities “that God told them to go and blow this machine up that kept souls, so souls could be released.”

“Yes, that news caused a bit of a stir,” said Chris Fallen,

KL3WX, a faculty member at the University of Alaska-Fairbanks (UAF), which now operates the HAARP facility.

"I can also confirm that no souls are stored at HAARP."

Long of interest to the Amateur Radio community as well as a target of various mind and weather-control conspiracies, HAARP is now operated as an ionospheric research facility by the UAF, which took it over last year from the US Air Force.

Police also seized a "massive" arsenal of weapons the individuals had apparently planned to use in attacking the remote facility.

According to a **WALB TV news account**, investigators discovered the plot after they began looking into possible drug sales by one of the men. A local gun shop also alerted authorities that the same individual was attempting to buy a large number of weapons. The two men, who face domestic terrorism charges, also were charged with selling drugs, and they could face other charges.

UAF spokesperson Marmian Grimes told *Alaska Dispatch News* that HAARP has been the target of previous threats, and she thanked the Georgia authorities for heading off this one. At an August open house at HAARP, Sue Mitchell of UAF's Geophysical Institute

said they hoped, among other things, "to show people that [HAARP] is not capable of mind control and not capable of weather control and all the other things it's been accused of."

Opened in 1960, HAARP is capable of generating extremely high-power signals in the HF range, aimed at the ionosphere. It has run listening tests in the past for the Amateur Radio community. — *Thanks to Alaska Dispatch News and other media*

Hurricane Watch Net Honors Bermuda Radio Amateur

11/04/2016

The Hurricane Watch Net (**HWN**) has recognized one of its long-time members, Antony "Tony" Siese, VP9HK. HWN Manager Bobby Graves, KB5HAV, announced on October 20 that the net would confer upon Siese the title of "Honorary Member," in recognition of his 31 years of service. Graves said Siese is the first non-manager to be named an Honorary Member.

VP9HK joined the HWN in 1985, although, he said, he took a "sabbatical" last year. In 2003, his reports during Hurricane Fabian gave forecasters at the National Hurricane Center valuable

ground-truth information and insight as to what the storm was doing in Bermuda, Graves said, earning Siese the Message in a Bottle Award from W4EHW (now WX4NHC) for the 2003 Hurricane Season.

"It is very rare for any individual to be so dedicated to an organization, especially as a volunteer," Graves said. "Tony, on behalf of the Hurricane Watch Net, thank you for all you have done and continue to do." Siese was first licensed in the UK as G4CIL in the 1970s. He's lived in Bermuda for more than 52 years. — *Thanks to the Hurricane Watch Net*